

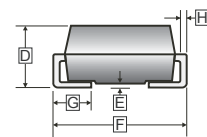
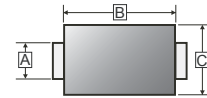
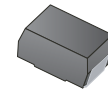
RoHS Compliant Product

A suffix of "-C" specifies halogen-free and RoHS Compliant

FEATURES

- Surface mount device
- High surge current capability
- Low reverse current
- Component in accordance to RoHS 2002/95/EC

SMB



MECHANICAL DATA

- Cases : DO-214AA(SMB)
- Case Material : Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals : Lead Free Plating(Tin Finish)
Solderable Per MIL-STD-202, Method 208
- Polarity : Cathode Band
- Weight : 0.095 grams(approximate)

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.91	2.11	E	-	0.203
B	4.06	4.70	F	5.08	5.59
C	3.30	3.94	G	0.76	1.27
D	2.13	2.44	H	0.15	0.31

MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

PARAMETERS	SYMBOL	PART NUMBERS							UNITS
		SMF 101B	SMF 102B	SMF 103B	SMF 104B	SMF 105B	SMF 106B	SMF 107B	
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	I _F	1.0							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	80							A
Maximum Instantaneous Forward Voltage @ 3.0A	V _F	1.30							V
Maximum DC Reverse Current at Rated DC Blocking Voltage @TA=25°C @TA=100°C	I _R	10							μA
		100							
Typical Junction Capacitance (NOTE1)	C _J	50							pF
Maximum Reverse Recovery Time (NOTE2)	T _{rr}	150			250	500		ns	
Thermal Resistance, Junction to Lead (Note 3)	R _{θJL}	25							°C / W
Thermal Resistance, Junction to Ambient (Note 3)	R _{θJA}	80							
Storage and Operating Temperature Range	T _{STG} , T _J	-55 ~ 150							°C

NOTES:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V D.C.
2. Measured with I_F=0.5A, I_R=1A, I_{RR}=0.25A
3. Rating applies when surface mounted on the minimum pad size recommended, PC Board with 7.0 X 7.0mm copper pad.

CHARACTERISTIC CURVES

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

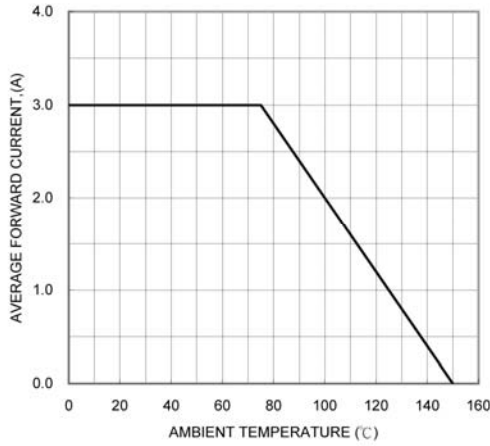


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

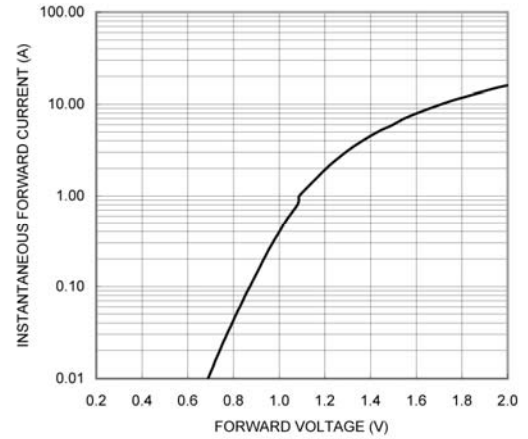


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

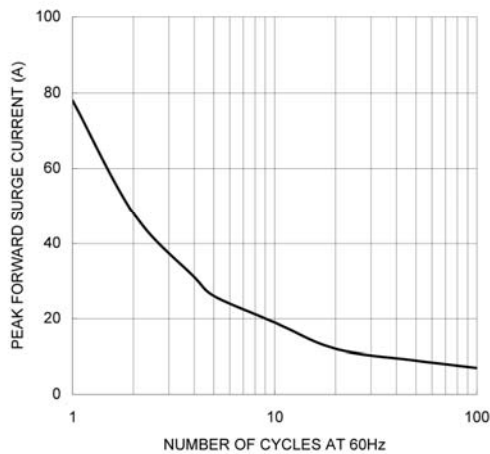


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

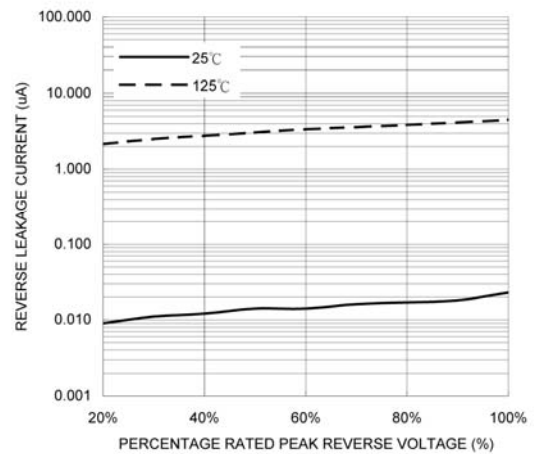


FIG. 5-TYPICAL JUNCTION CAPACITANCE

